

TABLE 1. Sequences of amplicon-specific primers.

Cystic Fibrosis Transmembrane Regulator (CFTR) 15-plex			Gauchers (GCR) and Sickle Cell Anemia (SCA) 4-plex		
Primer Sequences	Exon	Size (bp)	GCR Primer Sequences	Exon	Size (bp)
AGG CTT CTC AGT GAT CTG TTG	Int 19	-440	GGG TGG GAG GGT GGA GGC TAA TGG	6	401
GAA TCA TTC AGT GGG TAT AAG CAG			CCA GAA GGT AGA AAG GTG AG		
GCC CGA CAA ATA ACC AAG TGA	19	410	GAA TGT CCC AAG CCT TTG A	2	358
AGT CTA ACA AAG CAA GCA GTG			AAG CTG AAG CAA GAG AAT CG		
TGA TGG TAA GTA CAT GGG TG	21	381	TGC AAC TAC TGA GGC ACT T	9	319
CAA AAG TAC CTG TTG CTC CA			TAC AAT GAT GGG ACT GTC G		
CTT CTA ATG GTG ATG ACA GCC T	9	335	SCA Primer Sequences		
CCA CTG AAA ATA ATA TGA GGA AAT			CAT TTG CTT CTG ACA CAA CTG		124
AGG TAG CAG CTA TTT TTA TGG	13	295	CCA ACT TCA TCC ACG TTC ACC		
TAA GGG AGT CTT TTG CAC AA			GCR and Tay-Sachs (TS) 3-plex		
TGT AGG AAG TCA CCA AAG	4	267	GCR		
CGA TAC AGA ATA TAT GTG CC			CCT TGC CCT GAA CCC CGA A	9, 10, 11	871
GGA GTC CAA TTT TCA CTC ATC TTG	17b	245	CTG ACT CTG TCC CTT TAA TGC CCA		
AGT TAA TGA GTT CAT AGT ACC TGT T			TS Primer Sequences		
AGA TAC TTC AAT AGC TCA GCC	7	220	GTG TGG CGA GAG GAT ATT CCA	11, 12***	530
GGT ACA TTA CCT GTA TTT TGT TT			TGG CTA GAT GGG ATT GGG TCT		
CAG ATT GAG CAT ACT AAA AGT G	11	200	GGG TCC TAC AAC CCT GTC ACC CAC	7**	190
TAC ATG AAT GAC ATT TAC AGC A			AAG CTT CAC TCT GAG CAT AAC AAG		
GAG CCT TCA GAG GGT AAA AT	10	175	B-thalassemia Primer Sequences		
TCA CAT AGT TTC TTA CCT CT			GCT GTC ATC ACT TAG ACC TC	1, 2, 3	1612
AAG AAC TGG ATC AGG GAA GA	20	155	GCA AGA AAG CGA GCT TAG TG		
TCC TTT TGC TCA CCT GTG GT			WT-1 Primer Sequences		
GCT GTC AAG CCG TGT TCT A	5	132	CTG AGT GAA TGG AGC GGC	Name	Size (bp)
GTA TAA TTT ATA ACA ATA GTG CC			GGG TGA ATG AGT AGG TGG	B*	204
TTG GTT GTG CTG TGG CTC CT	14b	110	CGG TGC TGG ACT TTG CG	F	186
ACA ATA CAT ACA AAC ATA GTG G			AAG TGG ACA GTG AAG GCG		
GAC TCT CCT TTT GGA TAC CTA	12	90	CCG TCT TGC GAG AGC ACC	H*	262
GCA TGA GCA TTA TAA GTA AGG			CTA ATT TGC TGT GGG TTA GG		
GGC GAT GTT TTT TCT GGA GA	3	70	AGT TGT GTA TAT TTG TGG TTA TG	J	167
ACA AAT GAG ATC CTT ACC CC			GTT ACT GTG GAA AGG CAA TG		
CFTR Exon 21 Primer Sequences			GAG ATC CCC TTT TCC AG	N*	176
CAA GTG AAT CCT GAG CGT GAT TT	Name	Size (bp)	CAC AGC TGC CAG CAA TG		
CAA AAG TAC CTG TTG CTC CA	SS#1	477	CTC ACT GTG CCC ACA TTG	O*	211
GAA CTT GAT GGT AAG TAC ATG GGT G	SS#2	389	CAA TTT CAT TCC ACA ATA G		
AGT CAA AAG TAC CTG TTG CTC CAG			* Reported previously by Varanasi et al 1994.		
TGA TGG TAA GTA CAT GGG TG	SS#3	381	**Reported previously by Navon & Proia 1989.		
CAA AAG TAC CTG TTG CTC CA			***Reported previously by Tanaka et al 1990.		
			NOTE:		
			Amplicon sizes increase by 40bp for chimeric primers.		

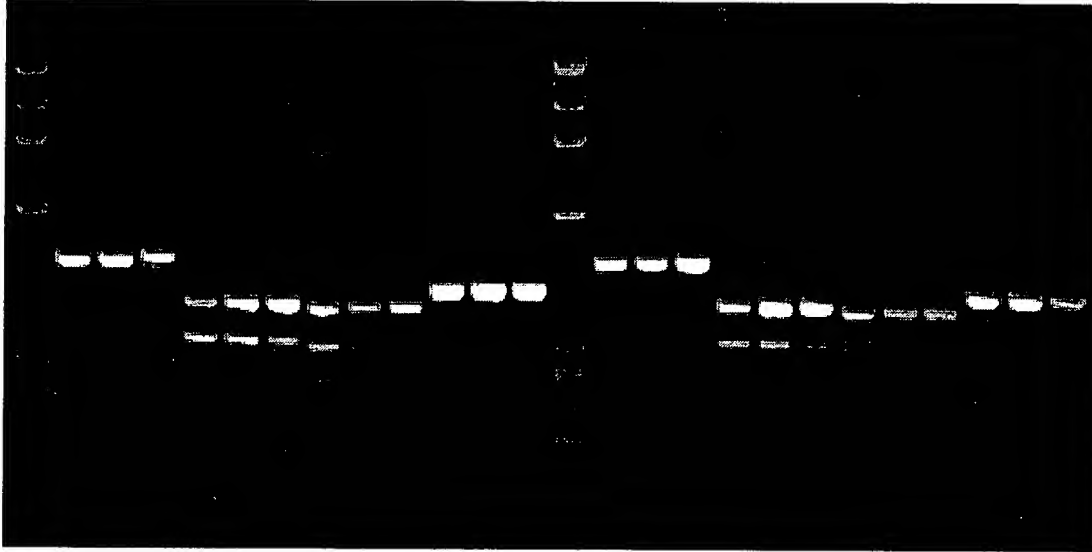
FIGURE 1

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50°

55°

50°												55°													
SS#1				SS#2			SS#3			SS#3+UPS		SS#1				SS#2			SS#3			SS#3+UPS			
M	1	2	3	4	5	6	7	8	9	10	11	12	M	1	2	3	4	5	6	7	8	9	10	11	12



60°

65°

60°												65°													
SS#1				SS#2			SS#3			SS#3+UPS		SS#1				SS#2			SS#3			SS#3+UPS			
M	1	2	3	4	5	6	7	8	9	10	11	12	M	1	2	3	4	5	6	7	8	9	10	11	12

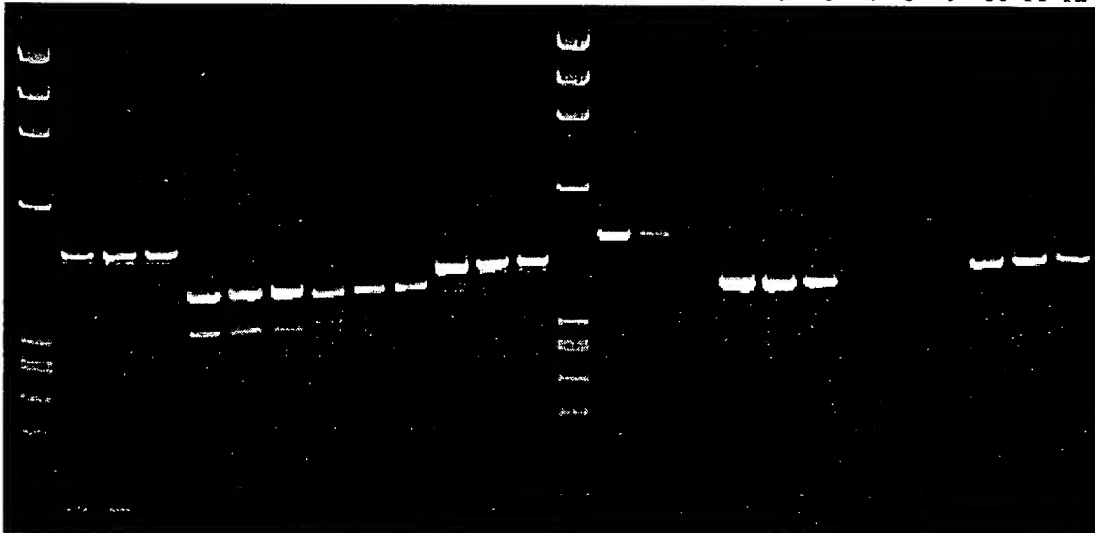


FIGURE 2

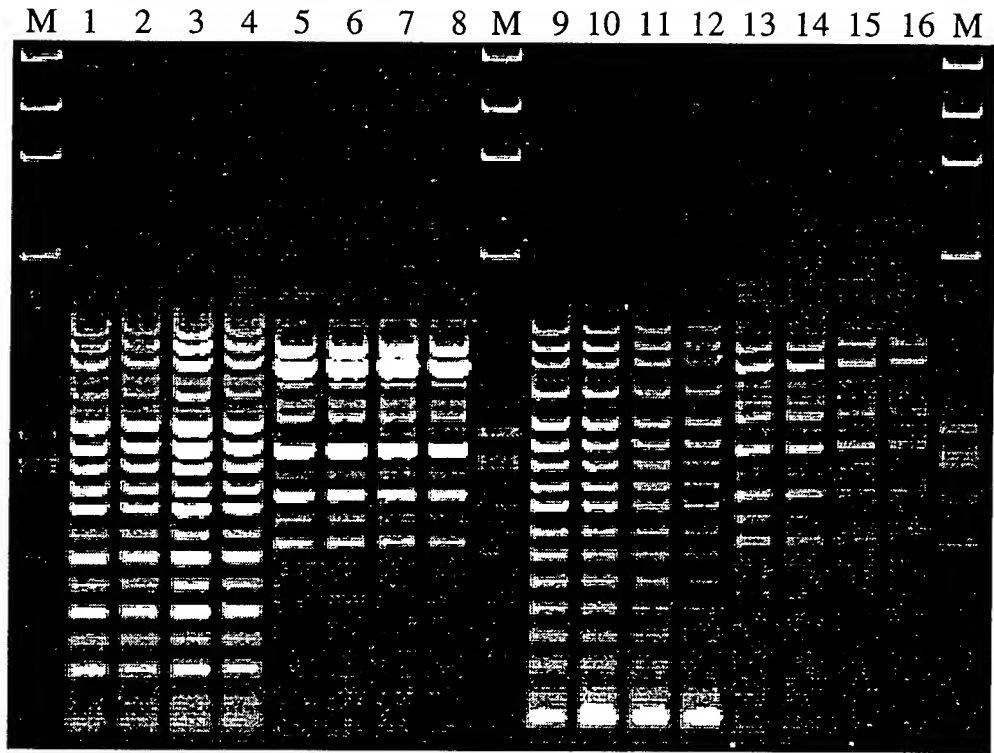
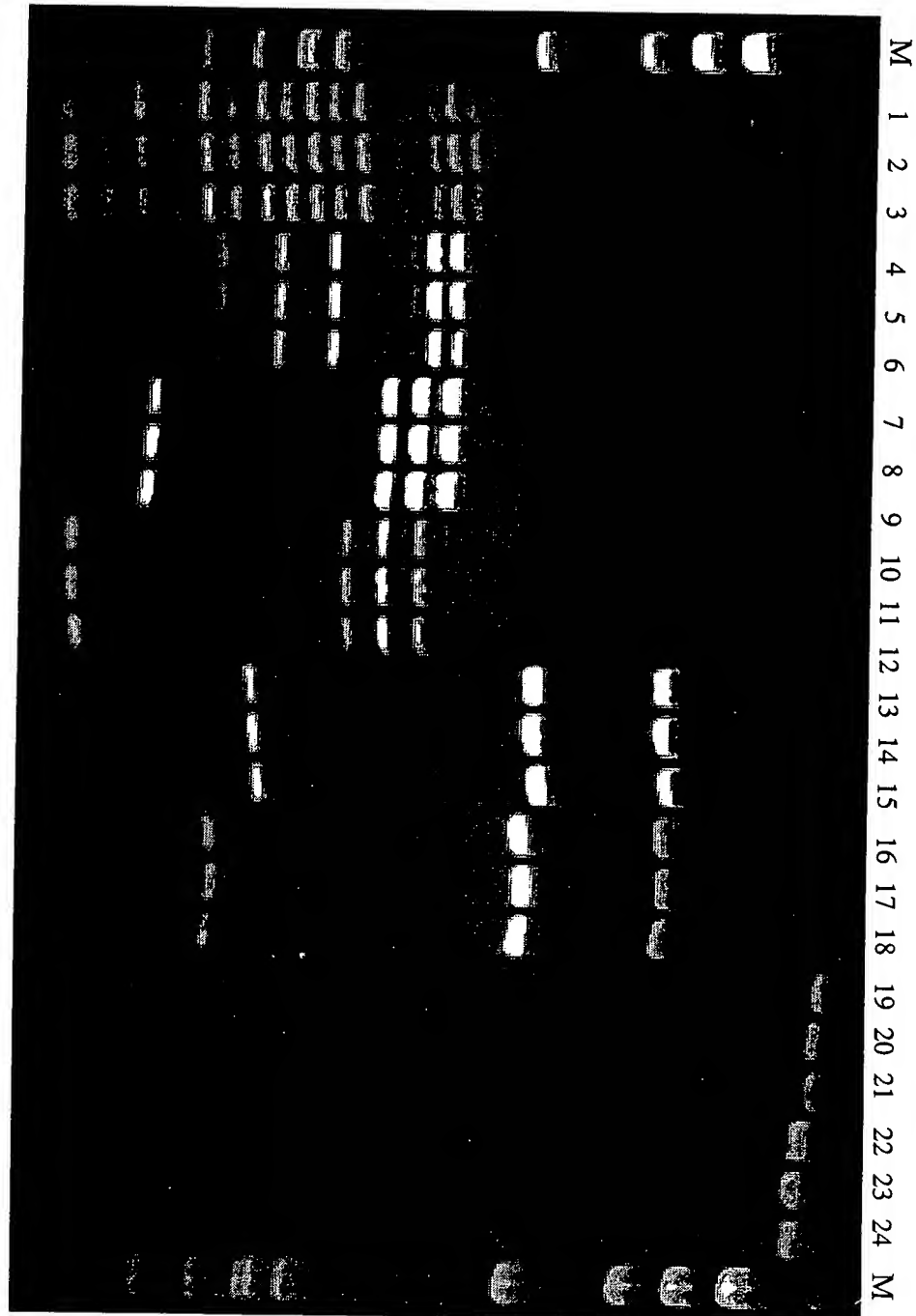


FIGURE 3

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FLOOR 4

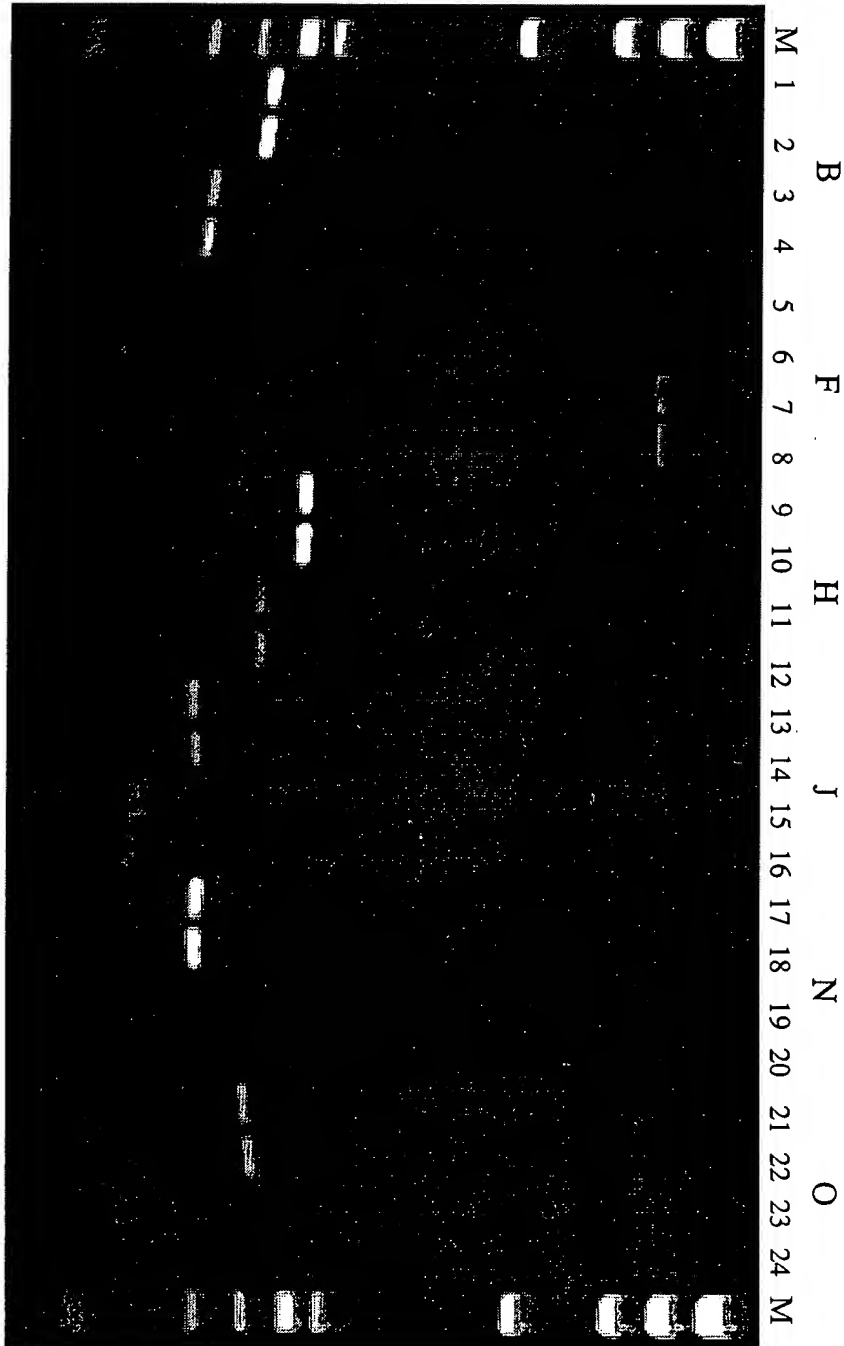


FIGURE 5